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$$R_{1}$$
 $R_{2}$ 
 $R_{3}$ 

ADENOSINE CYCLIC KETAL (ACK)

WHEN 
$$R_1 = R_2 =$$

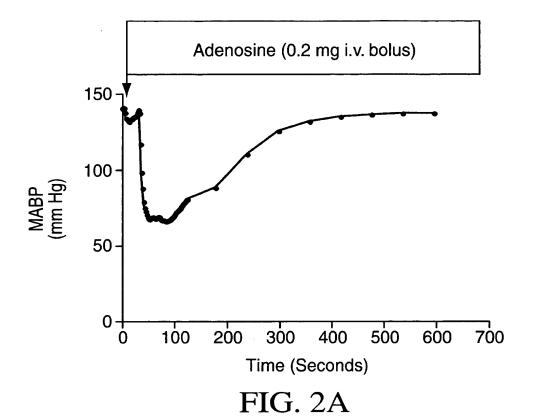
$$\begin{array}{c} H_2 \\ C \\ H_2 \end{array} \qquad \begin{array}{c} H_2 \\ C \\ H_2 \end{array} \qquad \begin{array}{c} H_2 \\ C \\ \end{array}$$

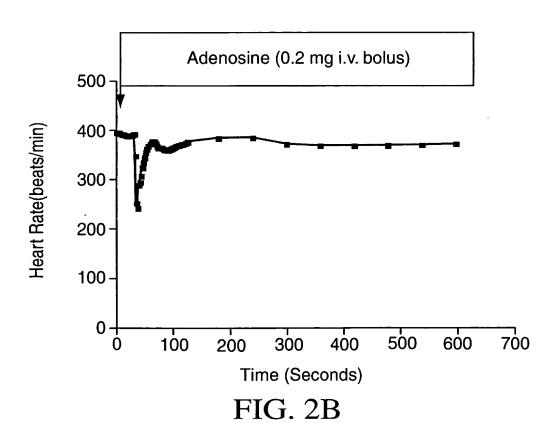
AND  $R_{3}$ ,  $R_{4}$  AND  $R_{5}$  = HYDROGEN

CHEMICAL STRUCTURE OF ADENOSINE CYCLIC KETAL (ACK) AND THE CHEMICAL FORMULA OF THE COMPOUND NONAMETHONIUM ADENOSINE CYCLIC KETAL (NONAMETHONIUM ACK).

The synthetic scheme for synthesizing nonamethonium adenosine cyclic ketal. The reagents and conditions are: i) zinc dust, tetrahydrofuran (THF); ii) N-methylpyrrolodine, CoBr<sub>2</sub>, carbon monoxide; iii) adenosine, HCl/dioxane, (EtO)<sub>3</sub>CH, DMF; iv) 40% Me<sub>3</sub>N in H<sub>2</sub>O.

## FIG. 1B





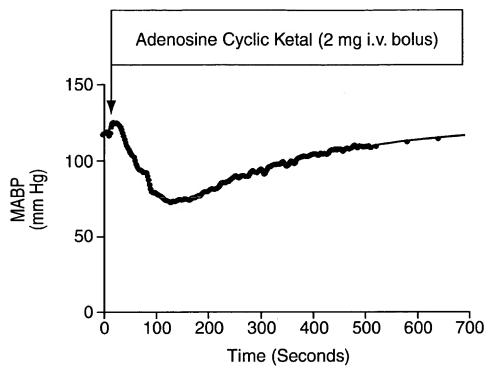


FIG. 3A

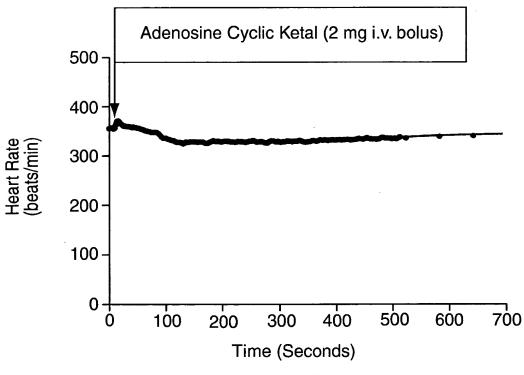
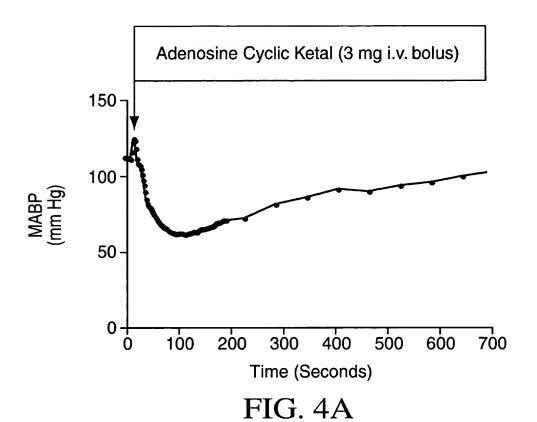
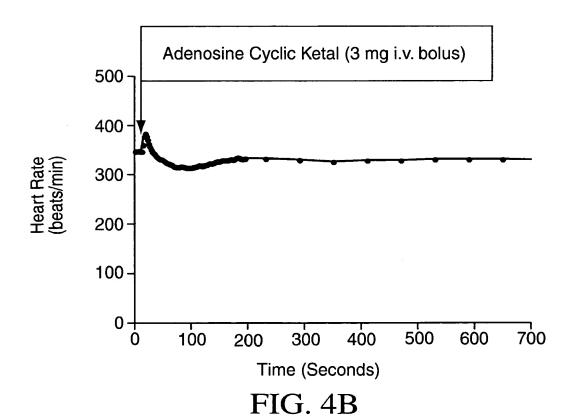


FIG. 3B





Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)

Adonesine Cyclic Ketal (2 mg i.v. bolus)

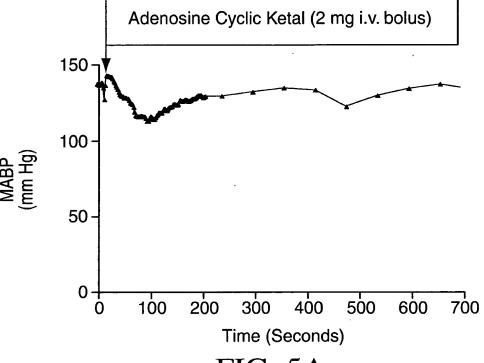
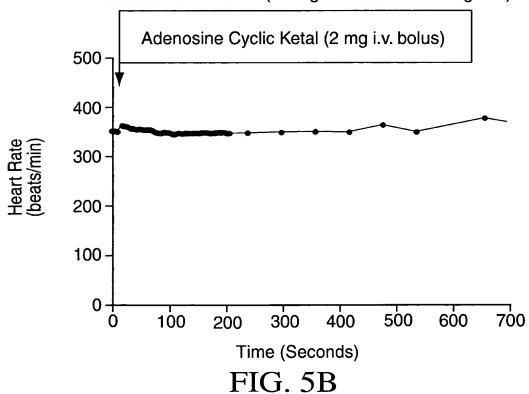


FIG. 5A

Pretreated with DPSPX (10 mg i.v. bolus + 0.15 mg/min)



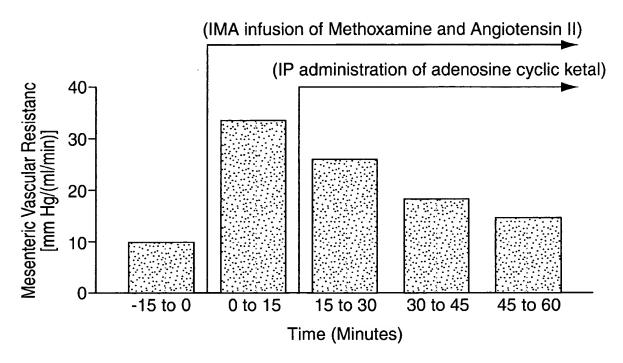


FIG. 6A

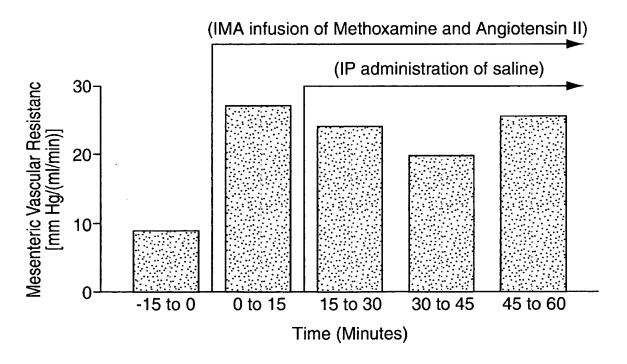


FIG. 6B